## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE        |
|---------------------------|----------|--------|-------------|
| FEE DETERMINATION         | <u> </u> | -      | 1-10        |
| O.I.P.E. CLASSIFIER       |          | 10     | 6260        |
| FORMALITY REVIEW          |          |        | 10 200      |
| RESPONSE FORMALITY REVIEW |          |        | <del></del> |
|                           |          | 71471  | 8/9         |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N Non-elec | cted |
|---|----------------------------|------------|------|
|   | Allowed                    | Interfere  |      |
| _ | (Through numeral) Canceled | A Appeal   |      |
| ÷ | Restricted                 | O Objected | j    |

|          |           |              |               |          |          |              | -        | ÷   | ••••         | •  | ••••   |          |           | ····     |
|----------|-----------|--------------|---------------|----------|----------|--------------|----------|-----|--------------|--|--|----------|-----------|----------|
| C        | laim      | ıIJ          |               |          |          |              | D        | ate | <u> </u>     |  |  |          | $\neg$    |          |
| Г        |           | _            | 7             | T        | $\neg$   |              | Γ        | T   | T            | T  | T  | Т        | $\exists$ |          |
| -        | Original  | , D          | 4             |          |          |              |          | 1   |              | - 1  |  |          |           |          |
| i ii     | [ 5       | 1            | 1             | -        |          | i            |          | ļ   | -            |  |  |          | -         |          |
| F        | Z         | J.           | $\succ$       | t        | $\dashv$ | -            | $\vdash$ | +   | +            | +  | +  | +        | $\dashv$  |          |
| ⊢        |           | 2 2          | $\vdash$      | ╁        | +        |              | _        | ╁   | +            | +  | $\dashv$   | +        | $\dashv$  |          |
| ⊢        | 3         |              | 1             | ╁        | +        | $\dashv$     | <u> </u> | +   | +            | +  | +  | +        | -         |          |
| ⊢        | 1         | <del>-</del> | <del>J-</del> | ╀        | +        | 4            | _        | +   | +            | 4  | 4  | 4        | 4         |          |
| ├        | 5         |              | 1             | ╀        | +        | 4            |          | ╀   |              | +  | -  | 4        | 4         |          |
| <u> </u> | 6         |              | 1             | ╀        | +        | -            |          | ╀   |              | +  | -  | +        | 4         | 1        |
| _        | 7         | +            | 1             | 1        | +        | 4            | _        | +   | +            | +  | 4.   | 4        | 4         |          |
|          |           | 16           | 1             | ╀        | +        | -            |          | Ļ   | $\perp$      | $\perp$  | <u>-</u>  -                                      | 4-       | 4         |          |
| _        | 8         |              | <b>L</b>      | ╀        | 4        | 1            |          | 1   | 1            | 4  | _ļ_  | 1        | 4         |          |
|          | 9         | -            | 1             | 1        | 1        | 4            |          | ┺   | Ļ            | 4  | 1  | $\perp$  | _         | ĺ        |
|          | 10        | \ <u>_</u>   | 1             | L        | $\perp$  | 4            |          | L   | $\perp$      | L  | $\perp$  | $\perp$  |           | 1        |
| _ '      | Q         |              |               | L        | $\perp$  | _            |          | L   |              | $\perp$  | $\perp$  | $\int$   |           |          |
|          | 12        | ب            |               | Ł        | $\perp$  | $\perp$      |          | Ĺ   | Ĺ            | I  | $\prod$  | Ι        |           | ſ        |
|          | 13        | U            |               | Ľ        | Ι        | Ι            |          | Г   | Τ            |  | T  | Т        | 7         | ı        |
|          | 14        |              |               |          | T        | T            |          |     | T            | Τ  | T  | 1        | 7         | ı        |
|          | 15        |              |               |          | T        | T            | _        | Г   | $\top$       | 1  | $\top$   | $\top$   | 1         | t        |
|          | 16        |              |               |          | T        | 1            | _        | Г   | $\top$       | T  | +  | T        | 7         | 1        |
|          | 17        | П            | П             | _        | 1        | +            |          | Т   | 1            | $^{\dagger}$                                     | $^{+}$   | +        | 1         | 1        |
| ٦,       | 18        |              |               | $\vdash$ | $^{+}$   | +            |          | H   | +-           | +  | +-   | +        | 1         | H        |
| Í        | 19        | Н            | -             | -        | +-       | +            | -        | -   | +            | +-   | +  | +-       | 1         | 1        |
| Ĭ,       | 20        | $\vdash$     | $\dashv$      | -        | +        | +            | -        | -   | ╀            | +  | +  | +        | -         | -        |
| A        |           | Щ            | _             |          | $\perp$  | 4            | _        |     | -            | ╀  | 1  | $\perp$  | 1.        |          |
| $\dashv$ | 21        | Щ            | _             |          | 1        | 1            | _        |     | 上            | 1  | $\perp$  | $\perp$  | ]         |          |
| _        | 22        | _            | _             |          | L        | 1            | _        | _   | L            | _  | L  | L        | 1         | Ĺ        |
| ╝        | 23        |              |               |          | L        | $\perp$      | _]       |     | L            | Ĺ  | Ľ  | Ĺ        | ]         | ſ        |
|          | 24        | [            |               | _        | L        | $\perp$      |          |     | Ĺ            | L  | Γ  | Γ        |           | Γ        |
|          | 25        | [            | [             |          | Ĺ        | ſ            |          |     |              | Γ  | Т  | Γ        | 1         | r        |
| _]       | 26        | T            |               |          | Γ        | Τ            | ٦        |     | Γ            | T  |  | Π        | 1         | Γ        |
|          | 27        |              |               |          | Γ        | Τ            | 7        |     | 1            | Т  | 1  | T        | 1         |          |
| П        | 28        |              | 寸             |          |          | T            | 7        |     |              | T  | $\top$   | 1        | 1         | r        |
|          | 29        | _            | 寸             |          | T        | $^{\dagger}$ | 7        |     | T            | †-   | +  | t        | 1         | H        |
|          | 30        |              | -1            |          | T        | +            | -        |     | $\vdash$     | +-   | +-   | +-       | 1         | ۲        |
| ĩ        | 31        | -            | -+            |          | t        | t            | 7        | _   | $\vdash$     | +  | ╁╴   | $\vdash$ | 1         | H        |
| *        | 32        | +            | ᆉ             |          | t        | +            | +        |     | +-           | +-   | +  | -        | 1         | H        |
|          | 33        | $\dashv$     | $\dashv$      | _        | $\vdash$ | +            | $\dashv$ |     | <del> </del> | $\vdash$   | $\vdash$   | ┢        | 1         | H        |
|          | 34        | -+           | $\dashv$      | -        | $\vdash$ | ╁            | $\dashv$ |     | $\vdash$     | +-   | +-   | $\vdash$ | 1         | H        |
| _        | 35        | -            | $\dashv$      | _        | ⊢        | +-           | +        |     | $\vdash$     | ┼  | ₽  | -        | 1         | H        |
|          | 36        | +            | $\dashv$      |          | $\vdash$ | +            | 4        |     | ⊢            | -  | ╄-   | -        | 1         | H        |
| -        | 37        |              | $\dashv$      |          | $\vdash$ | +-           | +        | _   | ⊢            | <del> </del>                                     | $\vdash$   | -        | -         | H        |
|          | 38        | -+           | $\dashv$      |          | $\vdash$ | +            | 4        |     | -            | <u> </u>   |  | $\vdash$ | 1         | F        |
|          |           |              |               |          | ├-       | ╀            | 4        |     | <b>⊢</b>     |  | <u> </u>   | $\vdash$ | ļ         | L        |
| 4        | <b>39</b> | -            | $\dashv$      |          | $\vdash$ | $\perp$      | 4        |     | _            | ot   | $oxed{oxed}$                                     |          |           | L        |
|          | 40        | $\perp$      | $\perp$       |          | L        | L            | ╛        |     | L            | L  | L  | L        |           | L        |
|          | 41        | $\perp$      | _[            |          | L        | ľ            | I        | _   |              | 1  |  |          |           | Γ        |
| - 14     | 42        |              | T             |          |          | Π            | 7        |     |              | Г  | $\vdash$   |          | 1         | Γ        |
| Ţ        | 43        |              | $\top$        |          | Γ        | Т            | 1        | _   | Г            | <b>†</b>   | $\vdash$   | -        | 1         | T        |
| _        | 44        | 寸            | $\dashv$      |          | Г        | t            | +        | -   | $\vdash$     | <del>                                     </del> | <del>                                     </del> | H        | 1         | ۲        |
|          | 45        | $\dashv$     | +             |          | $\vdash$ | 1            | +        |     | $\vdash$     |  | ╁  | $\vdash$ | 1         | H        |
|          | 46        | +            | $\dashv$      | -        | H        | +-           | +        |     | $\vdash$     | -  | ├  | -        | 1         | $\vdash$ |
|          | 47        |              | +             | -        | ┢        | ┨            | +        |     | ⊢            | $\vdash$   | 1  | $\vdash$ |           | 1        |
|          | 48        | +            | $\dashv$      |          | $\vdash$ | ⊢            | +        | _   | $\vdash$     | $\vdash$   | ├-   | <u> </u> | -         | H        |
| -        | 49        |              | +             | -        | -        | $\vdash$     | +        | -   | <u> </u>     | ļ  | $\vdash$   | <u> </u> |           | $\vdash$ |
|          | 50        | +            | +             |          | <u> </u> | ⊢            | 4        | _   | <u> </u>     |  | <u> </u>   | L_       |           | -        |
|          |           |              |               |          |          |              |          |     |              |  |  |          |           |          |

|          | Cla      | aim          |         |   |   |   |   |   | D      | ate | ;        |          |   |   |   | _ |          |
|----------|----------|--------------|---------|---|---|---|---|---|--------|-----|----------|----------|---|---|---|---|----------|
|          | Final    | Original     |         |   |   |   |   |   |        |     |          |          |   |   |   |   |          |
|          |          | 51           |         |   | Γ |   |   | 7 |        | T   |          | Г        | Ţ |   | T |   | Γ        |
|          |          | 52           |         |   |   |   |   | 1 |        | T   |          |          | 7 | _ | Ť | _ | Г        |
|          |          | 53           | T       |   |   |   |   |   |        | T   | _        |          | 7 |   | T |   | Г        |
|          |          | 54           |         |   |   |   |   | I |        | I   |          |          | 1 |   | T |   |          |
|          |          | 55           |         |   | L |   |   |   |        | L   |          |          | 1 |   |   |   |          |
|          | _        | 56           | _       |   | L | ╛ |   |   |        | L   |          |          |   |   |   |   |          |
| 1        |          | 57           | _       |   | L | 1 | _ | ⊥ |        | L   |          |          |   |   |   |   |          |
| Ţ        | _        | 58           | _       |   |   | 1 |   | 1 |        | L   |          |          |   |   |   |   |          |
| 1        |          | 59           | 4       |   | _ | 1 | _ | l |        | L   |          |          | L |   | L |   |          |
| ŀ        | $\dashv$ | 60           | 4       | _ |   | 1 |   | 1 |        | L   | 4        |          | 1 |   | L | _ |          |
| 1        | _        | 61           | 4       | 4 | _ | 1 | _ | Ļ | _      | L   | 4        |          | ļ |   | L | 4 |          |
| ŀ        | _        | 62           | 4       | 4 | _ | 1 | _ | ļ |        | L   | 1        | _        | L |   | L | _ |          |
| ŀ        | _        | 63           | $\perp$ | 4 |   | 1 | _ | L |        | L   | 1        |          | L | _ |   | _ |          |
| ŀ        | _        | 64           | _       | 4 |   | 1 | _ | L | _      |     | 4        |          | L | _ |   | 1 |          |
| ŀ        | _        | 65           | _       | 4 | _ | 1 |   | L | _      |     | 1        | _        | L | _ |   | ļ |          |
| Ĺ        | _        | 56           | +       | 4 |   | ╀ | _ | L |        |     | 1        |          | L | _ | _ | 1 |          |
| H        | _        | 57           | -       | 4 |   | 1 |   | L | 4      |     | 4        | _        | L | 4 |   | 1 | _        |
| H        | -        | 88           | 1       | 1 | _ | 1 |   | - | -      |     | 1        |          | L | - |   | 1 |          |
| -        | -        | 9            | 4       | 4 |   | Ļ | _ | Ļ | 4      |     | 1        | _        | L | 4 | _ | ↓ |          |
| ١L       | -        | 70           | $\perp$ | 1 | _ | L | _ | L |        |     | 1        |          | L | ┙ |   |   |          |
| Ĺ        | _        | 71           | 4       | 4 | _ | L |   | L | 1      |     | 1        |          | L |   |   | I |          |
| -        |          | 2            | $\perp$ | 1 |   | L |   | L | 1      |     | 1        |          |   |   |   | I |          |
| L        |          | 73           | 4-      | 4 | _ | L |   | L | 4      |     | 1        | _        |   | 1 |   | L | ╛        |
| L        | _        | 4            | 4_      | 1 | _ | L |   | L | 1      |     | 1        |          |   | 1 |   | L | ╛        |
| L        | _        | 5            | _       | 1 |   | L |   | L | 1      |     | 1        | Ц        |   | 1 |   |   |          |
| L        |          | 6            | 4_      | 1 |   | L | _ | L | 1      |     | L        | _        | _ | 4 |   | L |          |
| H        | _        | 7            | 4       | + | _ | L | _ | L | 1      |     | Ļ        | _        |   | 4 |   | L | _        |
| $\vdash$ |          | 8            | +       | 4 |   | L | _ | L | 4      | _   | Ļ        | 4        | _ | 4 |   | L | ┙        |
| H        |          | 9            | +       | + |   | L |   |   | 4      | _   | Ļ        | 4        | _ | 4 |   | Ļ | ┙        |
| $\vdash$ | _        | 30           | +       | ╀ |   | L |   | L | 4      | _   | Ļ        | 4        |   | 4 |   | Ļ | ┙        |
| H        |          | 31           | +       | ╀ |   | L | _ | _ | +      |     | Ļ        | 4        | _ | 4 | _ | Ļ | 4        |
| $\vdash$ |          | 3            | ╁       | + |   | L | _ | _ | +      | _   | ╀        | -        | _ | 4 |   | ╀ | 4        |
| Н        |          | 4            | ╀       | ╁ | _ | L | - | _ | +      | _   | ╀        | 4        |   | 1 |   | ╀ | 4        |
| H        | _        | 5            | ╁       | ╁ | - | H | - |   | ╀      | _   | Ł        | 4        | _ | + |   | ╀ | 4        |
| 1        |          | 6            | +       | ╁ | _ | ┝ | - | _ | +      |     | H        | $\dashv$ | _ | + | _ | ┝ | $\dashv$ |
| H        | 8        |              | +       | ╁ | _ | H | ┪ | _ | +      | _   | ┝        | 4        | _ | + | _ | ├ | 4        |
| Н        | 8        | _            | ╁       | ╁ |   | H | 4 |   | t      |     | H        | $\dashv$ | _ | ╀ |   | ┝ | 4        |
| H        | _        | 9            | +       | ╁ | - | H | + | _ | +      | -   | H        | ┪        | _ | + |   | H | ┨        |
| H        |          | <del>-</del> | +       | ╁ | - | H | + | _ | $^{+}$ |     | H        | +        | _ | + | _ | H | ┥        |
| H        | 9        | _            | +       | ╁ | 4 | - | ┪ |   | +      | _   | ├        | +        |   | ╁ | _ | ┝ | 4        |
| H        | _        | 2            | +       | ╁ |   | L | + | _ | ╁      |     | ┞        | +        |   | + |   | L | 4        |
| $\vdash$ | _        | 3            | +       | ╁ | - | _ | + | _ | ╀      |     | ┞        | +        | _ | + | _ | H | 4        |
| Н        | 9        | _            | +       | ╁ | 4 | - | + | _ | ╀      |     | ┞        | -        |   | ╀ | _ | L | 4        |
| $\vdash$ | 9        |              | +       | ╁ | 4 |   | + | _ | +      | _   | ⊢        | 4        | _ | + | _ | L | -        |
| $\vdash$ | 9        |              | -       | - | - | - | + |   | +      |     | ۲        | -        |   | + |   | - | -        |
| H        | 9        | _            | +       | + | - | _ | + | - | +      | _   | H        | +        |   | + | - | - | $\dashv$ |
| $\vdash$ | 9        |              | +       | + | 4 | _ | + | - | ╁      |     | -        | +        | _ | + | _ | H | +        |
| Н        | 9        | _            | +       | + | + | - | + |   | $^{+}$ | -   | $\vdash$ | +        | _ | + | - | - | $\dashv$ |
| H        | 10       | _            | T       | t | 7 | _ | + | - | t      |     | $\vdash$ | +        | - | + |   | - | $\dashv$ |

| 101 | $\neg$       |              | _            | 1        | 1            | ┰            | ┿        | +-       | ┰        | ╀            |
|-----|--------------|--------------|--------------|----------|--------------|--------------|----------|----------|----------|--------------|
| 102 | -            |              | _            | <u> </u> | ⊢            | ╀            | 4-       | +        | +        | 1            |
| -   | -            |              | <u> </u>     | <u> </u> | ┞            | 1-           | +        | 4        | 1        | ┸            |
| 103 | 4            |              |              |          |              |              |          |          |          |              |
| 104 |              |              | -            |          | L            | L            |          |          | T        | T            |
| 105 | _            | _            |              |          | L.           | L            |          |          |          | Т            |
| 106 | _            |              |              |          | L.           | L.           |          |          | T        | Т            |
| 107 | _ 1          |              |              |          |              |              |          | T        | 1        |              |
| 108 | $\neg$       | П            |              |          |              |              | T        | $\vdash$ | T        | t            |
| 109 | T            | T            |              |          |              | 1            | 1        | T        | ✝        | t            |
| 110 |              | 寸            |              |          |              |              | T        | 1        | +-       | +            |
| 111 | +            |              |              |          |              | -            | 1        | -        | +        | 1            |
| 112 | $\top$       | 7            | 7            | 1        |              | -            | +        | ╁        | +        | <del> </del> |
| 113 | +            | $\dashv$     | -†           | +        | -            | -            | +-       | ┝        | ┼─       | ┝            |
| 114 | +            | +            | -+           | -+       |              | $\vdash$     | +-       | ├—       | ├        | ⊢            |
| 115 | +            | +            | ⇥            | +        | $\dashv$     |              | ├        | ├-       | ┝        | _            |
| 116 | +            | +            | -+           |          |              |              | ┞        | ļ        | ┡        | L            |
|     | +-           | +            | -            | -        | -1           |              | _        | <u> </u> | -        | L.           |
| 117 | +            | +            | 4            | 4        | -4           |              | L_       | <u> </u> | Ш        | L            |
| 118 | 4            | 4            | 1            | 1        | _            |              | L        | L        |          |              |
| 119 | $\perp$      | $\perp$      |              |          |              |              |          |          |          |              |
| 120 |              |              |              | - 1      | - 1          |              |          |          |          |              |
| 121 | T            | T            | 7            | 7        | $\dashv$     | _            |          | Н        |          |              |
| 122 | $\top$       | _            | 1            | +        | 7            | $\neg$       | -        | $\dashv$ | Н        | _            |
| 123 | +            | +            | $^{+}$       | $\pm$    | +            | -            | -        |          | -        |              |
| 124 | +            | +            | +            | +        | $\dashv$     | -            |          | $\dashv$ | $\dashv$ | -            |
| 125 | +            | +            | +            | +        | -            | $\dashv$     | -        |          | -        |              |
|     | +            | ╀            | +            | +        |              |              | -        | -        | $\dashv$ |              |
| 126 | ╀            | +            | - -          | +        | -            | 4            |          | 4        | _        |              |
| 127 | +            | +            | _            | 4        | 4            | 4            |          | _        | _        |              |
| 128 | +            | _            | 4            | _        | 4            | 4            |          |          | _        |              |
| 129 | 4            | _            | 4            | _        | 4            | _            |          | _        |          |              |
| 130 | ╄            | _            | 1            | _        | $\perp$      |              |          |          |          |              |
| 131 | $\perp$      |              | _L           | $\perp$  |              |              |          |          | _ ]      |              |
| 132 |              | 1            |              |          |              |              |          | 1        |          |              |
| 133 |              |              | Т            | Т        | Т            | $\neg$       |          |          |          | -            |
| 134 | Т            | Т            | Т            | T        | Т            | $\Box$       |          |          | コ        |              |
| 135 | T            | T            |              | T        | 7            |              |          | $\neg$   | ┪        |              |
| 136 | T            | 1            | $\top$       | 7        | T            |              | $\neg$   | ┪        | ┪        | _            |
| 137 | $^{\dagger}$ | ╁            | +            | +        | $^{\dagger}$ | $\neg$       | $\dashv$ | -1       | 一        |              |
| 138 | 十            | +            | +            | +        | +            | -+           |          | $\dashv$ | $\dashv$ |              |
| 139 | +            | +            | +            | +        | +            | +            | -        |          | $\dashv$ |              |
| 140 | +            | +            | +            | ╁        | +            | -            | $\dashv$ | -        | $\dashv$ | -            |
| 141 | ╁            | ╁            | ┰            | +        | +            | $\dashv$     | -        | -        | -        | _            |
|     | +            | +            | -            | 4        | 4            | 4            | _        | $\dashv$ | 4        |              |
| 142 | ╀            | ┸            | ┸            | _        | 4            | _            | _        |          | _        |              |
| 143 | ┸            | $\perp$      | $\downarrow$ | $\perp$  | $\perp$      | $\downarrow$ |          | _ ]      |          |              |
| 144 | L            | L            | $\perp$      | $\perp$  | $\perp$      | ╝            | J        | [        |          | _ ]          |
| 145 | Ĺ            | Ī            | $\prod$      | Ι        | I            | J            | T        | $\neg$   | 7        |              |
| 146 |              | 1            |              | T        | 1            | 1            | 1        |          |          |              |
| 147 | Т            |              | T            | T        | T            | 1            | 7        | 寸        | 7        |              |
| 148 | 1            | 1            | †            | $^{+}$   | 1            | ,            | -1       | 7        | 7        | $\dashv$     |
| 149 | T            | $^{\dagger}$ | †            | +        | +            | 7            | 7        | -+       | $\dashv$ | $\dashv$     |
| 150 | T            | +            | +            | +        | +            | +            | -\       | $\dashv$ | -+       | ᅱ            |
|     |              | <u> </u>     | т.           |          |              |              |          | _        | 1        |              |

Date

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)

BEST AVAILABLE COPY